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Big data: fast access, transfer, storage

Tuesday, 6 September 2022 12:00 (1 hour)

Data acquisition in high energy physics is a challenging task in terms of reliability and scalability. We present a framework for transferring raw acquisition data to the large-scale distributed file system Lustre and additionally archive the data in an archiving system in near real-time. The framework employs multiple queue data-structures and exploits producer-consumer paradigm to leverage reliable and scalable asynchronous data transfer. Latest 2022 beam time of the HADES experiment underpins the effectiveness of the framework.

Primary author: STIBOR, Thomas

Presenter: STIBOR, Thomas